

# Annual Evaluation Fiscal Year 2003

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# Goals

1. In a sample similar to the FY2003 CAMHD population...
2. Describe CAMHD Population, Services, & Outcomes during a 3-year period, and...
3. Identify factors related to key findings.

# Population Findings

1. Population Size
2. Geographic Region
3. Race and Ethnicity
4. Predictors of Retention

# CAMHD Population FY 2001 – FY 2003

**48% Overall Decrease**

FY 2001: 4,878 Youth

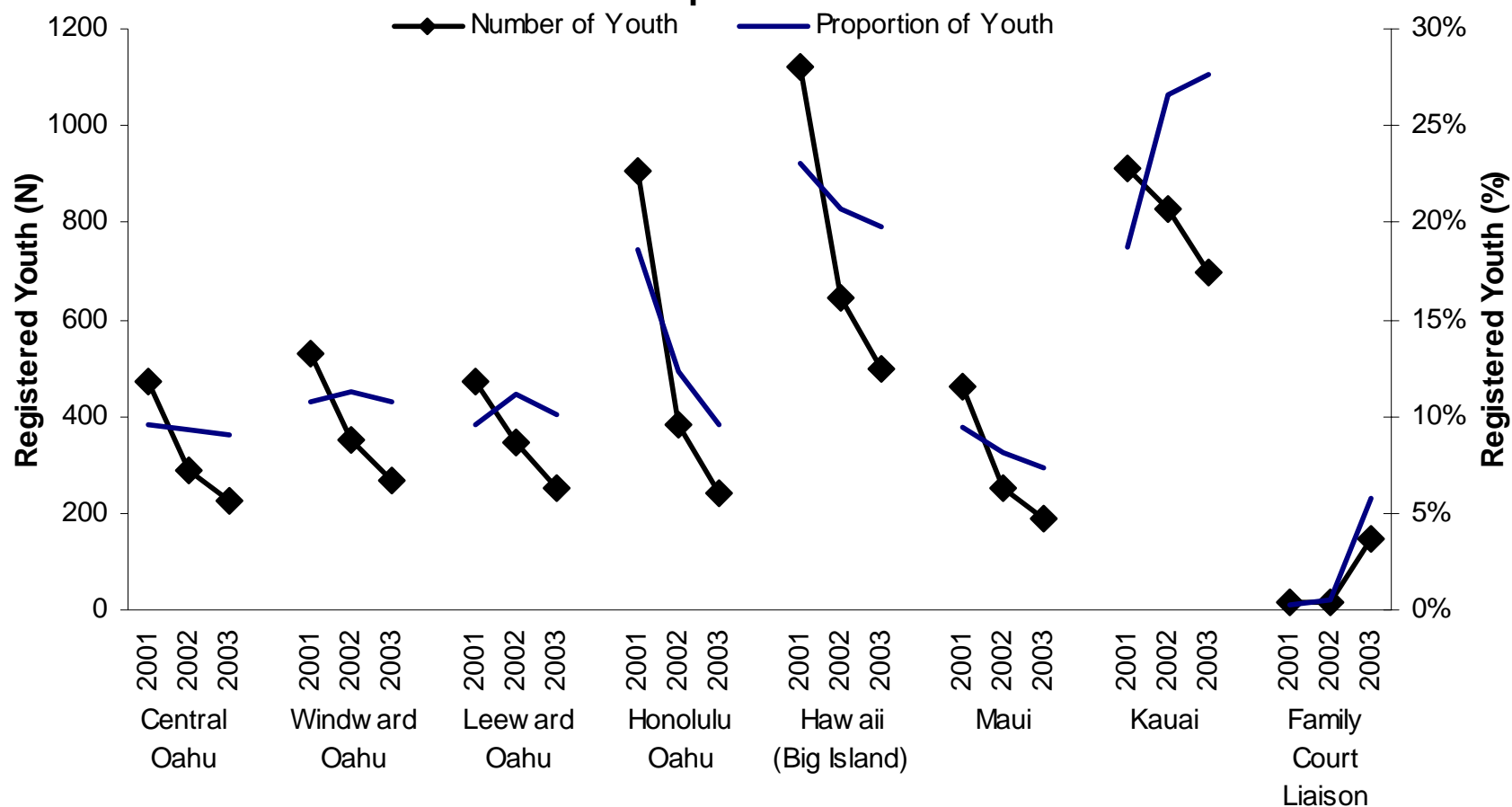
FY 2002: 3,111 Youth

FY 2003: 2,525 Youth

Total Registered Count excluding DOE transfers &  
Pervasive Developmental Disorder

# Family Guidance Centers

**Figure 2. Absolute and Relative Size of CAMHD Family Guidance Center Populations**



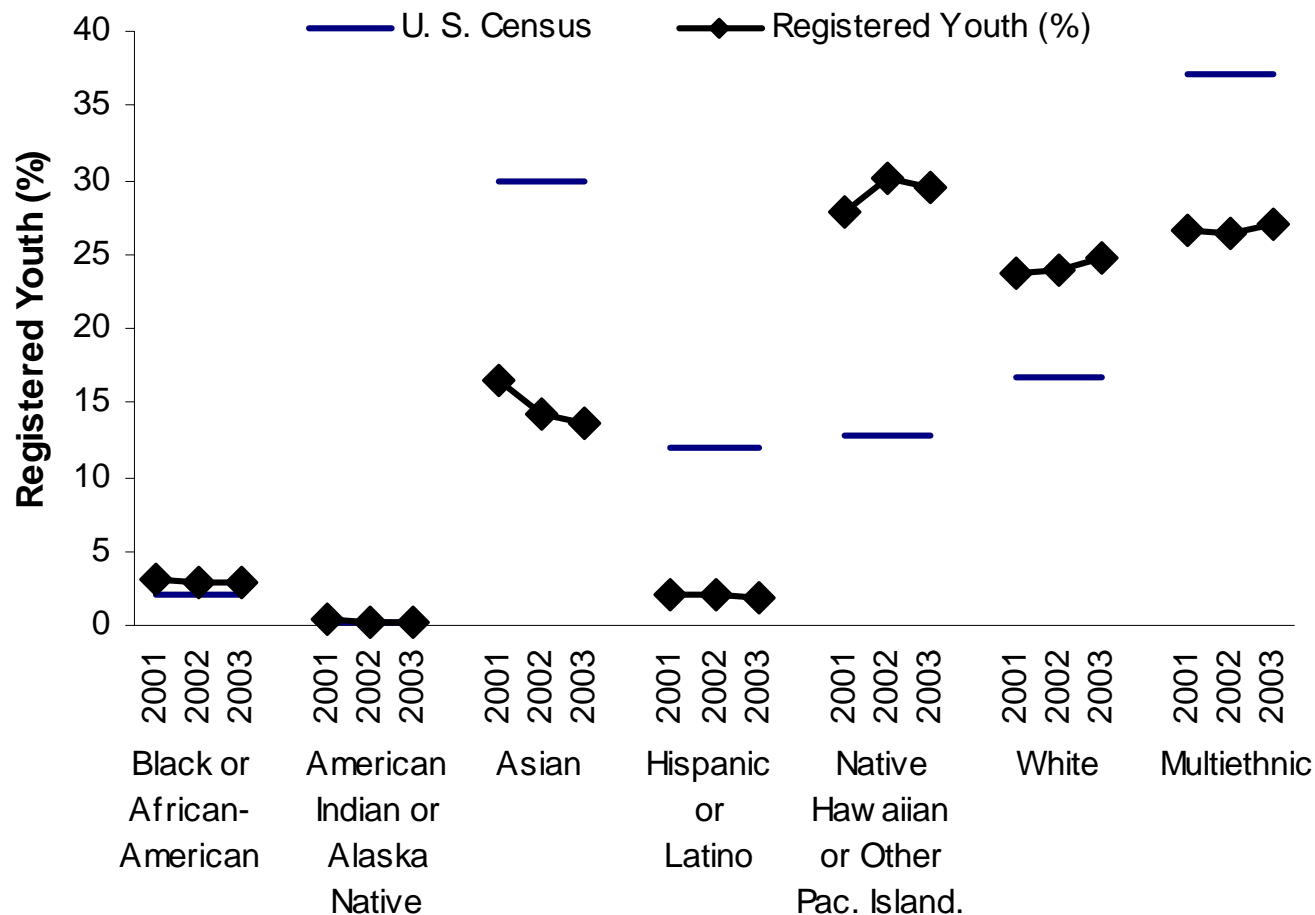
# CAMHD & County Census

Table 2: Percent of youth aged 3 – 21 years by county registered with CAMHD.

County	Percent of 2000 Census Population		
	2001	2002	2003
Hawaii (BI)	2.73	1.57	1.22
Honolulu	1.06	0.61	0.44
Kauai	5.74	5.21	4.39
Maui	1.38	0.76	0.56
State	1.55	0.99	0.80

# Ethnicity

**Figure 1. CAMHD Ethnic Groups Compared to U. S. Census 2000 for Hawaii Children Under 18 Years of Age**



# What Predicted Retention?

Table 3. Summary of factors discriminating year-to-year registration changes.

	Termination of Registration
Replicated	Case Management Only No DHS Involvement Older Age in Years Only One Primary Diagnosis Single Ethnic Group Reported
2001- 2002 Only	Not Hawaiian or Pacific Islander Not White  No Court Involvement Not Incarcerated During Year  Not Registered to Kauai FGC Honolulu Oahu FGC Registration Not Registered to Leeward Oahu FGC  Not Primary Disruptive Behavior Disorder Not Primary Anxiety Disorder Diagnosis
2002- 2003 Only	Not Primary Attentional Disorder Primary Substance-Related Disorder

Note: \* Was not statistically significant when Bonferroni corrected in 2002 – 2003 analysis.

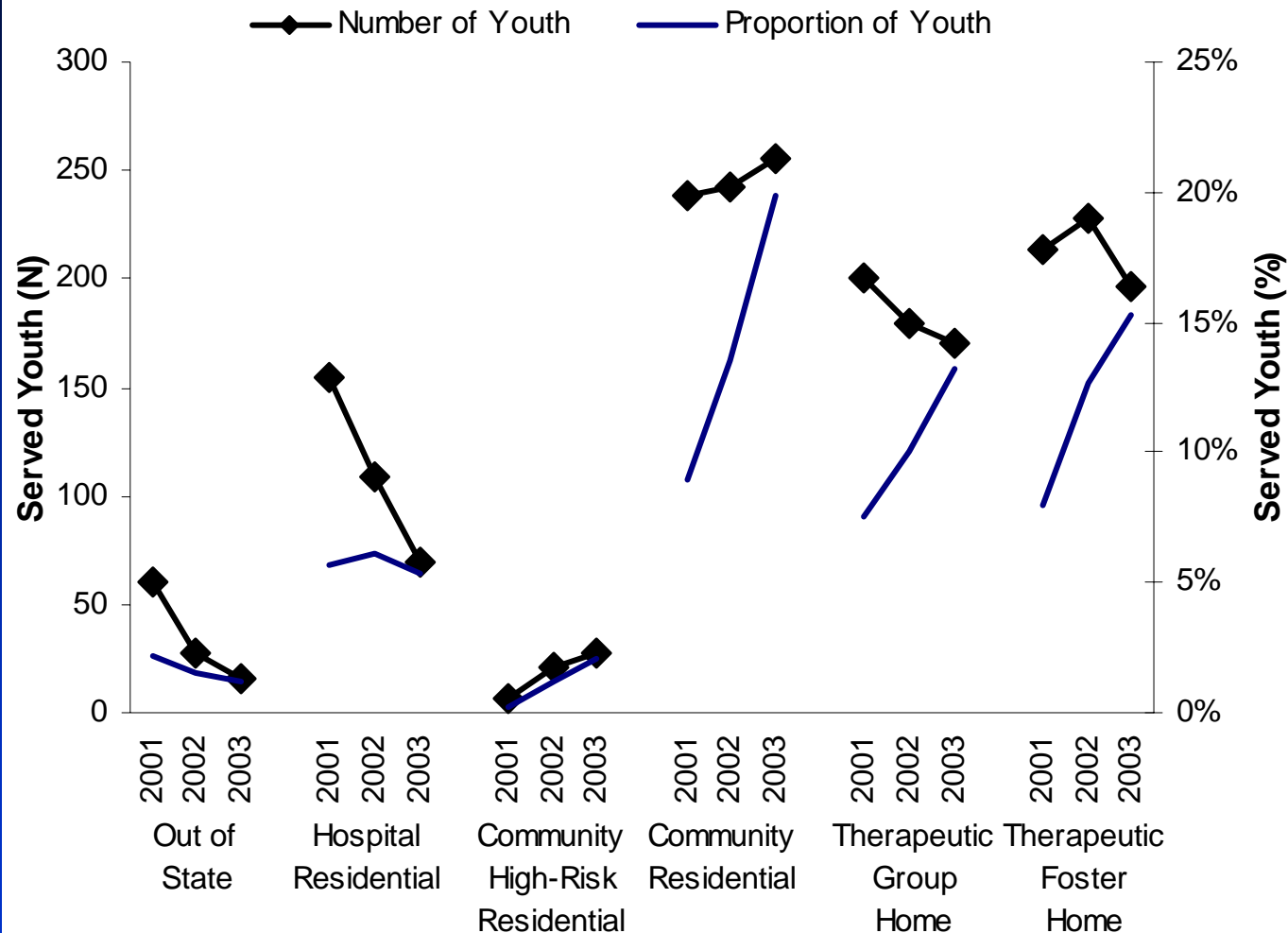


# Service Findings

1. Out-of-Home Service Trends
2. In-Home Service Trends
3. Predictors of Service Procurement
4. Predictors of Out-of-Home Placement

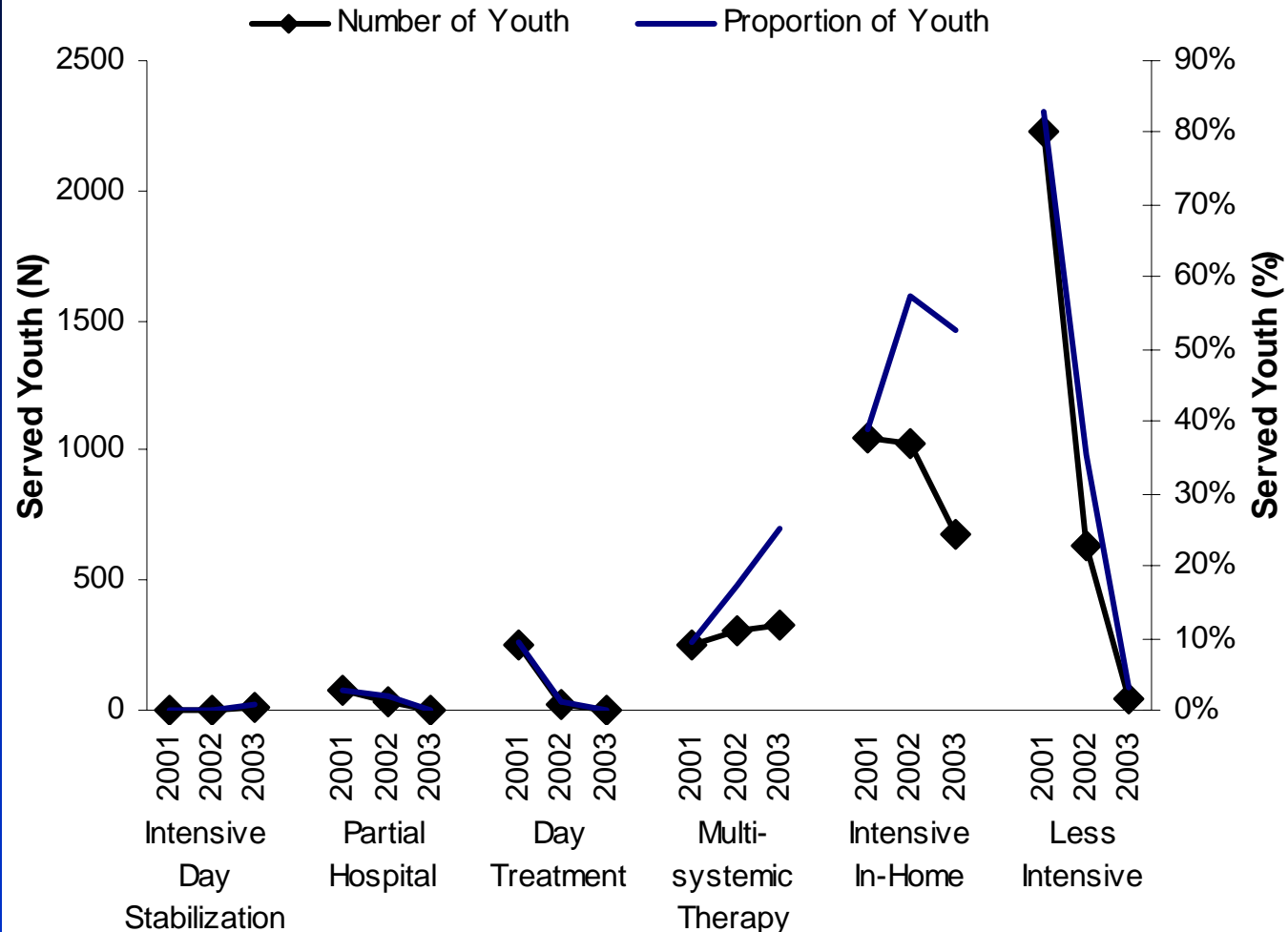
# Out-of-Home Service Changes

**Figure 3. Absolute and Relative Size of Out-of-Home Services**



# In-Home Service Changes

**Figure 4. Absolute and Relative Size of In-Home Services**



# What Predicted Service Procurement?

Table 6. Summary of factors discriminating procurement of any service.

	More Likely to Have Services Procured
Unanimous Findings	Black or African-American Ethnicity
	Multiple Ethnicity
	Native Hawaiian or Pacific Islander
	White Ethnicity
	Court Involvement
	DHS Involvement
	Incarcerated/Detained During Year
	Central Oahu FGC Registration
	Leeward Oahu FGC Registration
	Not Registered to Kauai FGC
	Windward Oahu FGC Registration
	Any Comorbid Diagnosis
	Primary Disruptive Behavior Disorder
	Primary Mood Disorder
Replicated Findings	Hawaii (Big Island) FGC Registration

# What Predicted Placement?

Table 7. Summary of factors discriminating procurement of out-of-home services.

	More Likely to Be Placed Out-of-Home
Unanimous Findings	Older Age in Years
	Multiple Ethnicity
	Native Hawaiian or Pacific Islander
	White Ethnicity
	Court Involvement
	DHS Involvement
	Incarcerated/Detained During Year
	Hawaii (Big Island) FGC Registration
	Leeward Oahu FGC Registration
	Not Registered to Kauai FGC
	Any Comorbid Diagnosis
	Not Primary Attentional Disorder
	Primary Disruptive Behavior Disorder
	Primary Substance-Related Disorder
Replicated Findings	Primary Mood Disorder

# Outcome Findings

1. Child Status: CAFAS and CALOCUS
2. Reliable Change: CAFAS and CALOCUS
3. Predictors of Improved Functioning
4. Predictors of Reduced Service Needs
5. Episode Length & Discharge Survival

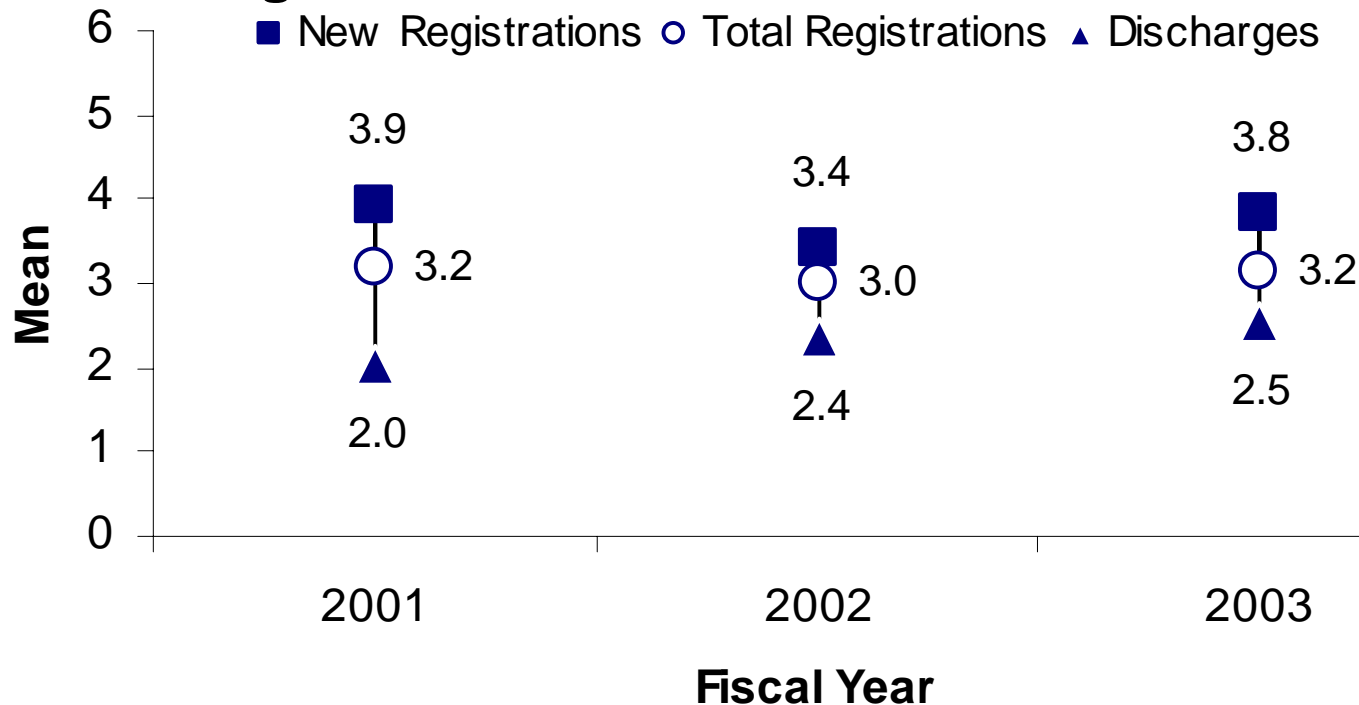
# Child Status: CAFAS

**Figure 8. CAFAS 8-Scale Total Scores**



# Child Status: CALOCUS

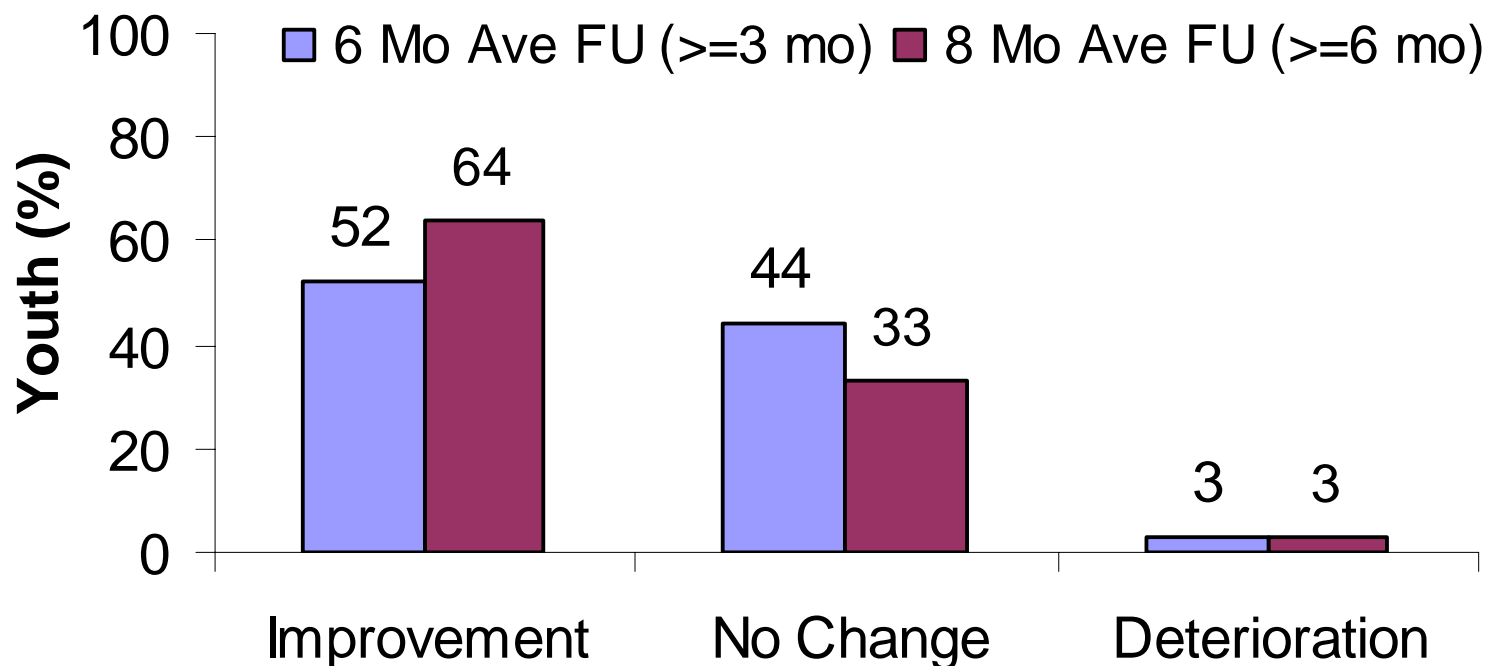
**Figure 7. CALOCUS Level of Care Scores**



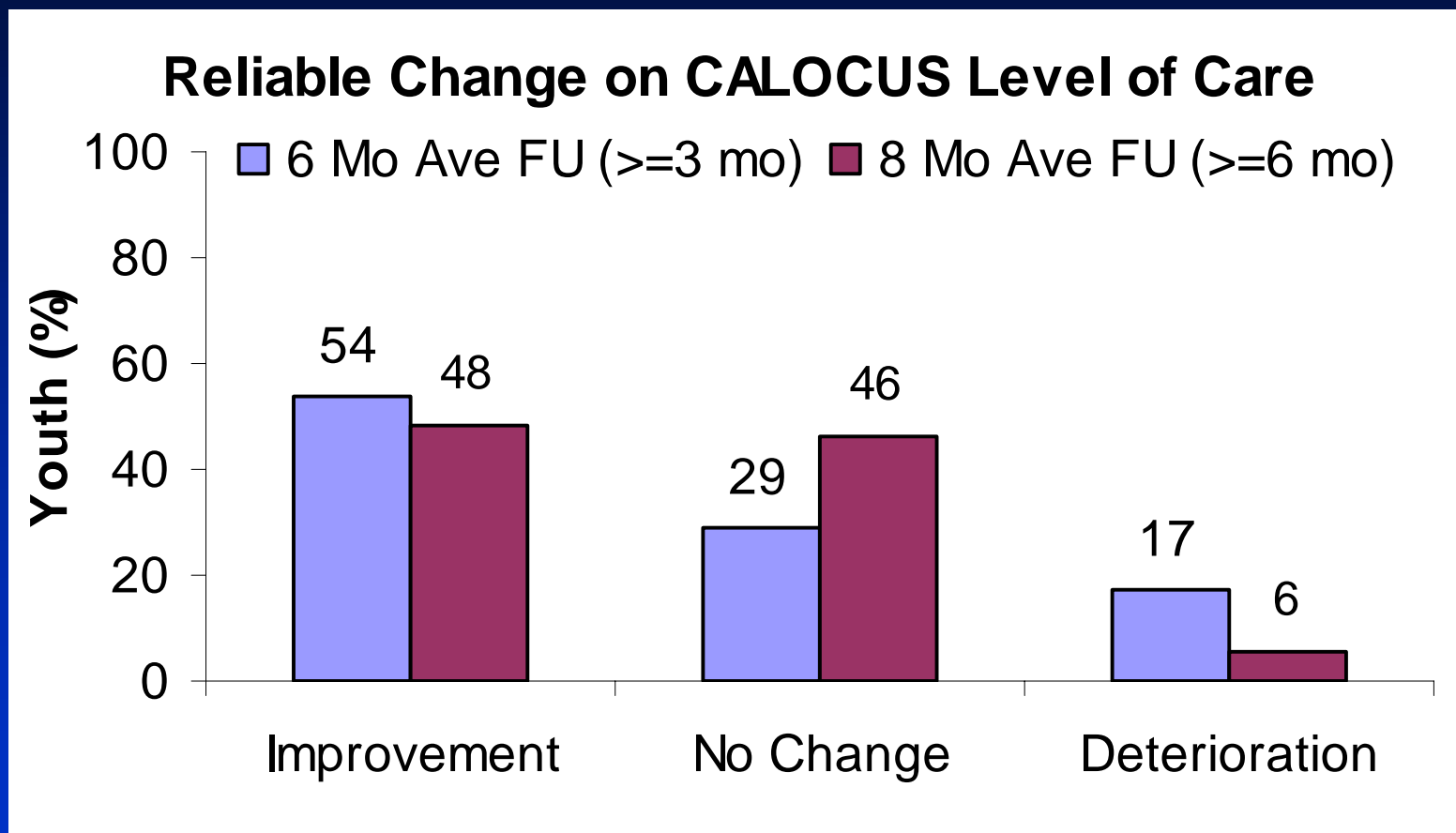


# Reliable Change: CAFAS

**Figure 9. Reliable Change on CAFAS 8-Scale Total**



# Reliable Change: CALOCUS



# What Predicted Improved Functioning?

Table 11. Summary of factors discriminating reliable improvement in child functioning.

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More Likely to Experience  
Reliable Improvement in Functioning

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Older Age

Court Involvement

Not Registered to Central Oahu FGC

Primary Mood Disorder

Primary Substance-Related Disorder

Not Primary Disruptive Behavior Disorder

Hospital Residential

Therapeutic Group Home

Multisystemic Therapy

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# What Predicted Reduced Service Needs?

Table 12. Summary of factors discriminating reliable improvement in service needs.

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More Likely to Experience  
Reliable Improvement in Service Needs

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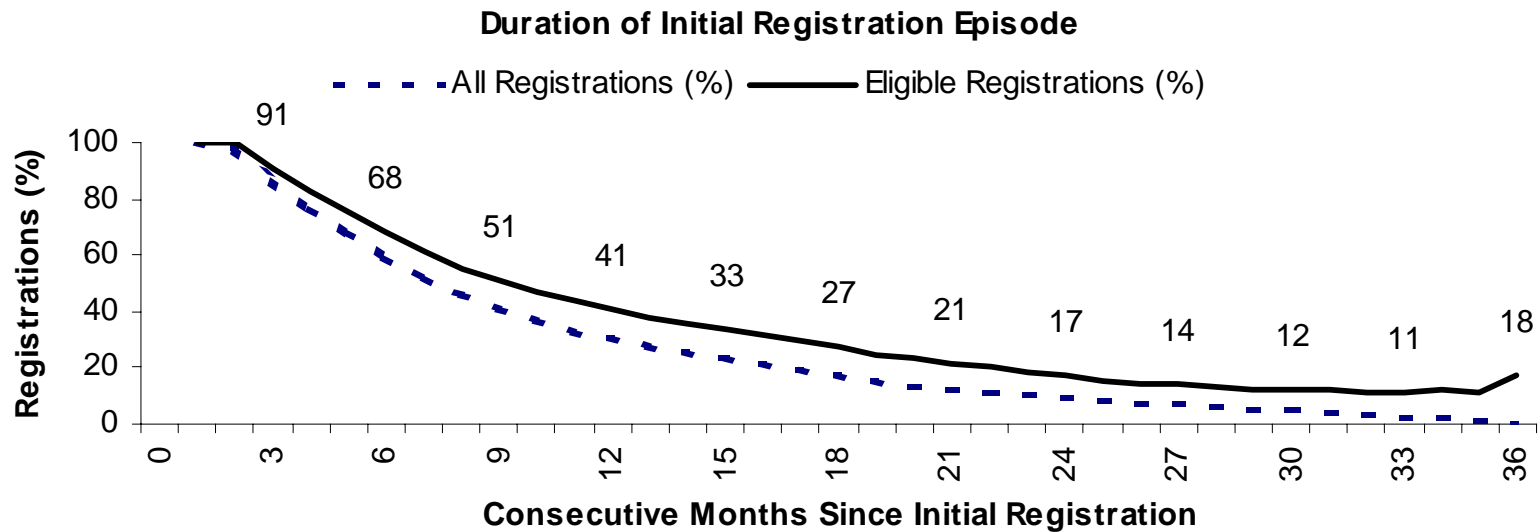
Registered to Honolulu Oahu FGC  
Registered to Maui FGC  
Not Registered to Central Oahu FGC  
Not Registered to Windward Oahu FGC

Primary Substance-Related Disorder  
Not Primary Disruptive Behavior  
Disorder

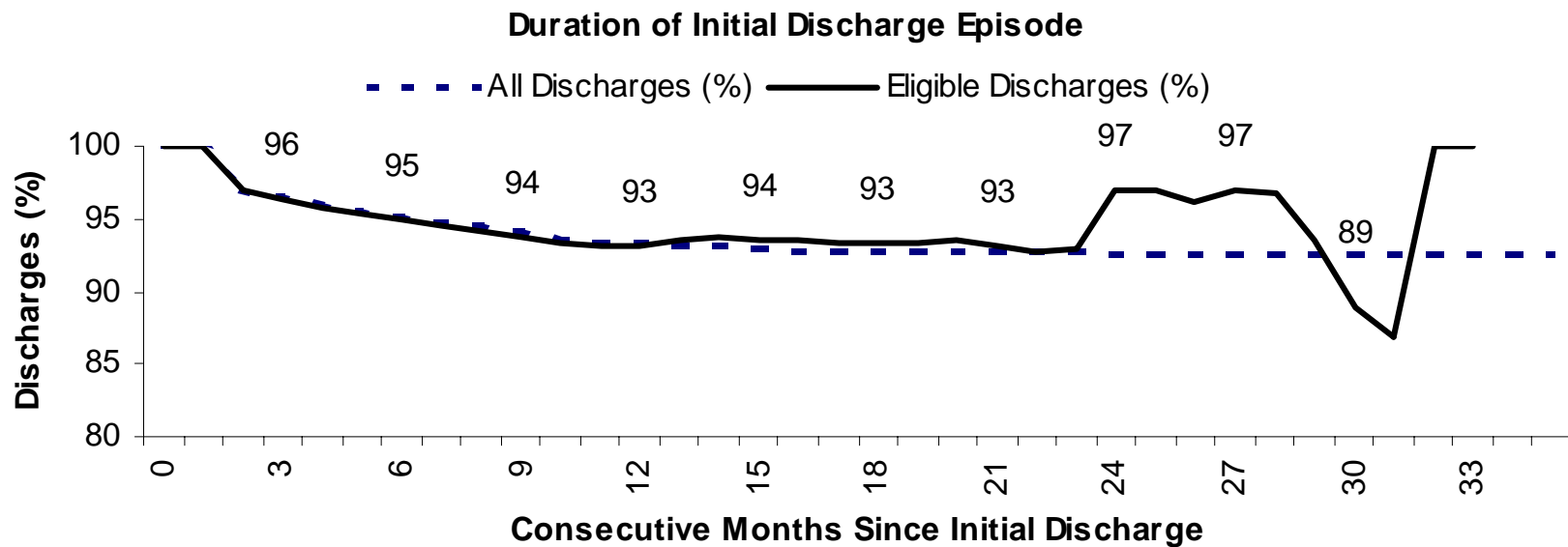
Not Hospital Residential  
Not Intensive In-Home Services

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# First Registration Episode Length



# Post-Discharge Survival



# Findings Summary

## 1. Smaller Population.

CAMHD registered youth population declined by approximately 46% from fiscal year 2001 to fiscal year 2003. This decline was evident after accounting for major structural changes to the system.

# Findings Summary

## 2. Changing Population.

### **Differed in...**

**Younger Age**

**More Multiethnic**

**More White**

**More Native Hawaiian or Other  
Pacific Islander**

**More Comorbid Diagnoses**

**More Interagency Involvement**

**Greater Service Intensity**

**More Out-of-Home Services**

### **Similar in...**

**Gender**

**Child Functioning**

**Service Needs**

**Overall Service Rates**

**Discharge Rates**

**Child Status Improvements**



# Findings Summary

## 3. Services Adjusted.

Youth received more services per year that were more likely to be out-of-home services received for shorter durations at any specific placement, except for therapeutic foster home.

# Findings Summary

## 4. Placement Predictors.

Youth were more likely to receive out-of-home services if they were older, multiethnic, White, or Native Hawaiian or Pacific Islander, involved with other child serving agencies, registered at Hawaii or Leeward Oahu, or suffering from comorbid diagnoses, disruptive behavior disorders, substance-related disorders, or mood disorders, but not attentional disorders.

# Findings Summary

## 5. Results for Youth.

The CAMHD service system effectively helped the majority of its youth to experience improved functioning and decreased service needs that prepared them for successful management in outpatient services within a 9 to 18 month service episode.

# Findings Summary

## 6. Child Improvement Predictors.

Hospital residential, therapeutic group home, and multisystemic therapy services were settings most associated with reliable improvements in functioning, whereas intensive in-home services were associated with maintaining stability.

Youth with mood or substance-related disorders were more likely to show child status improvements and youth with disruptive behavior were less likely to show improvements.

# Findings Summary

## 7. Competing Efficiencies.

Service efficiencies were gained in the overall cost per hour of service, but these gains were offset by increases in the number of service hours provided per youth and resulted in higher average expenditures per youth. The system appears to have adjusted service intensity to maintain the historical level of treatment gains.